

Appl. No. 10/645,497
Art Unit 3617
October 19, 2004
Reply to Office Action of July 27, 2004

AMENDMENTS TO THE SPECIFICATION

In the Specification:

Please amend the present specification at page 1, lines 11-19, the paragraph appearing after "Description of the Related Art", as follows:

When a weight unbalance exists in an assembled structure of a tire and a wheel rim, the weight unbalance causes a vehicle vibration. ~~is caused.~~ Therefore, in order to reduce the weight unbalance mentioned above, it has been conventionally, generally carried out to assemble the tire in the wheel rim in a state of aligning a phase of an air valve position regarded as a heavy point of the wheel rim with a phase of a light point of the tire. Thus, it is possible to cancel a part of the weight unbalance, so that it is possible to reduce the gravity of the balance weight for correcting the weight unbalance in the assembled structure of the tire and the wheel rim.

Please amend the paragraph bridging pages 1-2 of the present specification as follows:

In view of such a circumstance, the present inventor ~~has studied.~~ conducted studies. As a result, the present inventor has found that the effect of canceling the weight unbalance can be enhanced and the gravity of the balance weight can be more reduced, by assembling the tire and the wheel rim while taking into consideration a Radial Runout (RRO) corresponding to an eccentricity of the wheel rim.

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Please amend page 3, lines 3-5 of the present specification as follows:

In order to achieve the object mentioned above, in accordance with a first aspect of the present invention, there is provided a method of assembling a tire and a wheel ~~rim, comprising the steps of:~~ rim that includes the following steps.

Please amend page 3, lines 6-13 of the present specification as follows:

A first step involves (1) determining a Radial Runout (RRO) value $Wr1$ (unit: mm) in a primary component of the RRO of the wheel rim, a phase $\theta r1$ (unit: °) of a peak position thereof, an unbalance level Wub (unit: g) of a heavy point in a weight unbalance of the wheel rim, a phase θub thereof (unit: °), a radial distance L (unit: mm) of a balance weight mounting position for correcting the weight unbalance from an axis center of the wheel rim, a weight Tt (unit: mm) of the tire, and a phase αt of a light point in the weight unbalance of the ~~tire,~~ tire.

Please amend page 3, lines 14-17 of the present specification as follows:

A second step involves: (2) determining a phase θc of a correction unbalance Wc found by the following formula (1), by using the RRO value $Wr1$, the phase $\theta r1$, the unbalance level Wub , the phase θub , the distance

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L, the weight T_t and the phase α_t determined in the preceding ~~step~~, and
step. Formula (1) is:

Please amend page 3, lines 20-22 of the present specification as follows:

A third step involves: (3) assembling the tire and the wheel rim in a state of aligning the phase θ_c of the correction unbalance W_c with the phase α_t of the light point of the tire.